

VIRGIN RIVER BASIN

09413000 SANTA CLARA RIVER AT ST. GEORGE, UT

LOCATION.--Lat 37°04'31", long 113°35'32", in SE¹/₄SW¹/₄NE¹/₄ sec. 1, T. 43 S., R. 16 W., Washington County, Hydrologic Unit 15010008 on right bank 0.8 mi upstream from mouth and 2 mi south of St. George.

DRAINAGE AREA.--541 mi².

PERIOD OF RECORD.--October 1950 to September 1956, November 1984 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since January 27, 1993. Elevation of gage is 2,560 ft above sea level, from topographic map. October 1950 to September 1956, gage located 0.25 mi downstream and November 1984 to September 1989, 0.5 mi downstream from present site, both at different datum.

REMARKS.--Records fair except for daily discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/s, Mar 12, 1995, gage height, 14.60 ft, from rating curve extended above 2,800 ft³/s; no flow at times in 1951, 1953, 1955, 1956, 1989, and 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 217 ft³/s, Mar 10, gage height, 6.70 ft; minimum daily discharge, 0.52 ft³/s, Aug 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	5.3	4.4	5.1	5.6	11	5.7	6.6	4.8	1.2	.92	1.5
2	2.5	6.5	4.6	4.9	5.7	8.9	4.3	4.7	4.3	.67	.89	2.5
3	2.6	5.2	4.6	4.2	5.7	11	2.2	2.8	11	.78	2.4	5.6
4	1.5	5.0	4.1	3.7	5.0	8.3	2.3	2.5	4.6	.80	1.4	4.2
5	.71	4.8	4.5	3.7	4.6	7.4	5.8	1.9	1.9	.86	1.4	6.4
6	e.65	5.8	4.5	3.0	4.8	8.7	10	1.4	2.0	2.6	1.3	2.2
7	.63	6.4	4.8	3.2	5.0	9.9	10	1.2	.91	8.5	.52	1.7
8	.73	5.1	4.6	3.3	4.0	7.2	13	1.0	.74	1.8	.56	1.3
9	.57	5.4	5.1	6.7	4.8	13	7.7	.72	.65	1.5	.81	1.3
10	1.3	8.7	5.1	5.5	6.7	47	5.9	.77	.64	1.5	2.6	1.6
11	1.2	11	4.9	9.3	6.8	11	6.7	3.4	1.0	1.1	1.6	1.8
12	.94	8.3	4.5	8.6	6.8	6.8	4.4	3.3	.96	1.2	1.5	1.6
13	1.0	5.9	4.9	6.0	7.7	4.9	13	8.3	.96	4.2	3.8	1.2
14	1.1	7.2	4.5	5.2	9.4	3.2	6.8	5.8	1.1	7.4	2.5	1.1
15	.99	7.8	3.8	5.6	7.0	3.7	7.4	2.8	4.4	15	2.3	.85
16	.95	8.0	4.1	5.3	6.7	9.6	7.3	3.1	1.1	12	3.3	1.3
17	1.3	8.1	4.8	4.8	6.7	12	4.6	5.7	1.1	6.9	4.6	.78
18	1.0	7.0	5.3	5.1	6.5	8.6	2.8	11	.87	2.5	1.3	1.8
19	.73	5.9	5.1	5.1	6.6	7.5	2.4	9.7	.80	2.1	1.1	.96
20	.65	5.4	5.6	4.9	6.4	11	2.0	4.9	.77	2.4	9.5	.81
21	.77	4.9	5.9	4.6	5.7	6.4	7.8	7.9	.76	1.5	12	.78
22	.93	4.3	6.0	4.8	4.5	4.1	5.3	17	.94	1.3	4.5	.74
23	4.3	4.6	5.9	4.6	4.4	4.2	8.3	18	.89	1.3	5.6	.64
24	4.6	4.6	5.9	4.8	4.2	2.5	5.7	16	.84	.94	2.5	.72
25	3.5	4.5	5.9	4.5	4.2	4.6	8.2	13	.90	1.2	2.3	.80
26	3.1	4.9	6.1	4.6	6.7	5.1	3.3	8.8	.85	1.2	1.7	2.5
27	23	5.4	6.1	5.3	7.4	2.9	3.0	2.8	.79	1.1	1.4	1.1
28	6.7	4.8	5.4	5.3	24	4.1	4.1	2.3	.65	.94	2.2	4.9
29	2.0	5.4	5.1	5.3	---	2.1	7.8	4.2	.56	.90	2.6	5.2
30	26	5.3	5.4	6.1	---	4.0	8.3	7.3	.53	.85	2.7	5.2
31	8.7	---	5.0	6.4	---	2.6	---	5.2	---	1.4	1.9	---
TOTAL	107.25	181.5	156.5	159.5	183.6	253.3	186.1	184.09	52.31	87.64	83.70	63.08
MEAN	3.46	6.05	5.05	5.15	6.56	8.17	6.20	5.94	1.74	2.83	2.70	2.10
MAX	26	11	6.1	9.3	24	47	13	18	11	15	12	6.4
MIN	.57	4.3	3.8	3.0	4.0	2.1	2.0	.72	.53	.67	.52	.64
AC-FT	213	360	310	316	364	502	369	365	104	174	166	125

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1956, 1986 - 2001, BY WATER YEAR (WY)

MEAN	3.56	5.44	6.75	13.1	17.0	35.5	22.6	15.1	10.4	5.25	6.28	3.98
MAX	10.5	22.1	26.5	128	136	313	136	80.8	73.5	29.1	38.8	12.7
(WY)	1999	1999	1999	1993	1993	1995	1952	1993	1995	1995	1955	1998
MIN	.22	.59	.91	.82	.79	1.44	1.50	1.09	.31	.36	.055	.29
(WY)	1991	1991	1992	1991	1991	1991	1991	1990	1990	1990	1956	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951-56, 1986-2001	
ANNUAL TOTAL	1218.30		1698.57			
ANNUAL MEAN	3.33		4.65		12.3	
HIGHEST ANNUAL MEAN					56.0	
LOWEST ANNUAL MEAN					1.18	
HIGHEST DAILY MEAN	31	Aug 29	47	Mar 10	2910	Mar 12 1995
LOWEST DAILY MEAN	.42	Jul 22	.52	Aug 7	.00	Sep 21 1951
ANNUAL SEVEN-DAY MINIMUM	.56	Jul 19	.73	Jun 24	.00	Aug 2 1956
ANNUAL RUNOFF (AC-FT)	2420		3370		8910	
10 PERCENT EXCEEDS	6.0		8.6		22	
50 PERCENT EXCEEDS	2.5		4.5		3.7	
90 PERCENT EXCEEDS	.80		.85		.54	

e Estimated